FED ID 46-4195044

INVOICE

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

INVOICE

FOR PROFESSIONAL SERVICES

Number INV1162147

USEPA Region 9, P-3-1
1337 So. 46th
Building 201
Richmond, CA 94804-4698
ATTN: Greg Nagle

Date 04/26/19

P.O. No. 3SC086NTLX

DEPT	DESCRIPTION	Matrix	#	PRICE	PREMIUM -%-	EXTENDED
4508	EPA 1664 Oil & Grease (Total)	Water	4	$50.00		$200.00

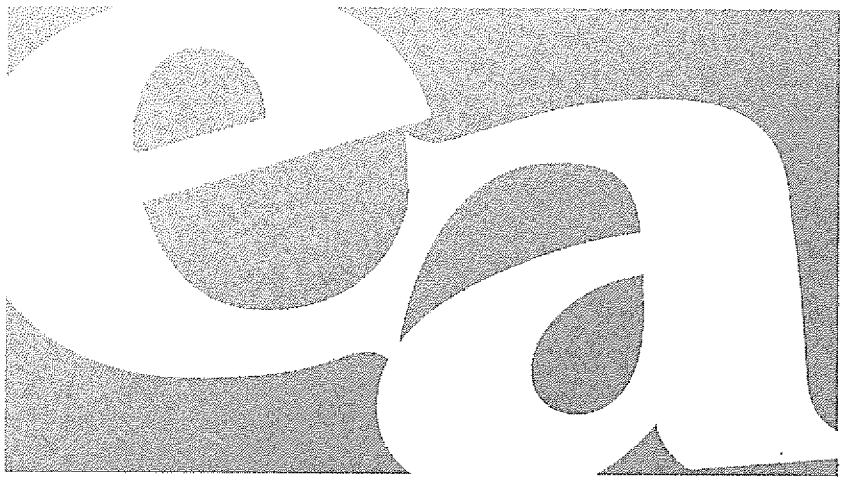
TOTAL: $200.00

JOB#: R19N02
LOGIN#: 309018
CONTACT: Greg Nagle
LOCATION: SoCal Oil Platforms

New Remit to address:

Enthalpy Analytical LLC
P.O. Box 741137
Los Angeles, CA 90074-1137

TERMS: NET CASH PAYABLE UPON PRESENTATION OF INVOICE. AMOUNT UNPAID OVER 30 DAYS OF DATE OF INVOICE SUBJECT TO A SERVICE CHARGE OF 1½% PER MONTH (EQUAL TO 18% PER ANNUM).



ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 309018
ANALYTICAL REPORT

USEPA Region 9, P-3-1	Project : R19N02
1337 So. 46th	Location : SoCal Oil Platforms
Richmond, CA 94804-4698	Level : II

Sample ID	Lab ID
EDITH	309018-001
GILDA	309018-002
HILLHOUSE	309018-003
HOGAN	309018-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Will Rice Date: 04/26/2019

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**309018**
Client:	**USEPA Region 9, P-3-1**
Project:	**R19N02**
Location:	**SoCal Oil Platforms**
Request Date:	**04/17/19**
Samples Received:	**04/17/19**

This data package contains sample and QC results for four water samples, requested for the above referenced project on 04/17/19. The samples were received cold and intact.

Total Oil & Grease (HEM) (EPA 1664A):
Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

ENVIRONMENTAL PROTECTION AGENCY
Region 9 Laboratory

3691018

CHAIN OF CUSTODY RECORD

1337 S. 46th St., Bldg. 201
Richmond, CA 94804-4698

PROJ. NO.	PROJECT NAME
R19N02	So. Cal. Oil Platforms

SAMPLERS: *(Signature)*

	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NO. OF CON-TAINERS	Oil & Grease 1664A	REMARKS
1	4/15/19	0800	W		X	Edith	2	X	
2		0900			X	Gilda	2	X	
3		1000			X	Hillhouse	2	X	
4		1100			X	Hogan	1	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
R. Baier	4/17/19 1412				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Received for Laboratory by: *(Signature)*	Date / Time	Temp. / Seals Intact (Y/N)	Conditions / Remarks		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

9-3502

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 3009018 Client: Environmental Protection

Date Received: 4/17/19 Project: _____

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Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☑ No (skip Section 3 below)

If no cooler Sample Temp (°C): 12.1 using IR Gun # ☐ A, or ☐ B

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/17/19 By (print) DC (sign) _____

Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☐ on cooler, ☑ on samples, ☐ on package

☐ Date: _____ How many 7 ☐ Signature, ☐ Initials, ☑ None

Were custody seals intact upon arrival? ☑ Yes ☐ No ☐ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable			
Were Method 5035 sampling containers present?			
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?			
Are there any missing / extra samples?			
Are samples in the appropriate containers for indicated tests?			
Are sample labels present, in good condition and complete?			
Does the container count match the COC?			
Do the sample labels agree with custody papers?			
Was sufficient amount of sample sent for tests requested?			
Did you change the hold time in LIMS for unpreserved VOAs?			
Did you change the hold time in LIMS for preserved terracores?			
Are bubbles > 6mm absent in VOA samples?			
Was the client contacted concerning this sample delivery?			
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 4/17/19 **By (print)** AC (sign) _____

Date Labeled 4/17/19 **By (print)** AC (sign) _____

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Detections Summary for 309018

Results for any subcontracted analyses are not included in this summary.

Client : USEPA Region 9, P-3-1
Project : R19N02
Location : SoCal Oil Platforms

Client Sample ID : EDITH Laboratory Sample ID : 309018-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Oil & Grease (HEM)	12.0		10.0	3.40	mg/L	TOTAL	2.000	EPA 1664A	METHOD

Client Sample ID : GILDA Laboratory Sample ID : 309018-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Oil & Grease (HEM)	17.6		10.0	3.40	mg/L	TOTAL	2.000	EPA 1664A	METHOD

Client Sample ID : HILLHOUSE Laboratory Sample ID : 309018-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Oil & Grease (HEM)	17.0		10.0	3.40	mg/L	TOTAL	2.000	EPA 1664A	METHOD

Client Sample ID : HOGAN Laboratory Sample ID : 309018-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Oil & Grease (HEM)	9.20	J	10.0	3.40	mg/L	TOTAL	2.000	EPA 1664A	METHOD

J = Estimated value

ENTHALPY ANALYTICAL

Total Oil & Grease (HEM)

Lab #:	309018	Location:	SoCal Oil Platforms
Client:	USEPA Region 9, P-3-1	Prep:	METHOD
Project#:	R19N02	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Received:	04/17/19
Matrix:	Water	Prepared:	04/25/19 11:30
Units:	mg/L	Analyzed:	04/25/19 16:20
Batch#:	269905		

Field ID	Type	Lab ID	Result	RL	MDL	Diln Fac	Sampled
EDITH	SAMPLE	309018-001	12.0	10.0	3.40	2.000	04/15/19 08:00
GILDA	SAMPLE	309018-002	17.6	10.0	3.40	2.000	04/15/19 09:00
HILLHOUSE	SAMPLE	309018-003	17.0	10.0	3.40	2.000	04/15/19 10:00
HOGAN	SAMPLE	309018-004	9.20 J	10.0	3.40	2.000	04/15/19 11:00
	BLANK	QC973448	ND	5.00	1.70	1.000	

J= Estimated value
ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

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Batch QC Report

Total Oil & Grease (HEM)

Lab #:	309018	Location:	SoCal Oil Platforms
Client:	USEPA Region 9, P-3-1	Prep:	METHOD
Project#:	R19N02	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	269905
Matrix:	Water	Prepared:	04/25/19 11:30
Units:	mg/L	Analyzed:	04/25/19 16:20
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC973449	40.00	37.80	95	78-114		
BSD	QC973450	40.00	36.90	92	78-114	2	18

RPD= Relative Percent Difference